

(b) a detector for identifying said first marker and said second marker by their respective absorption spectra; and

(c) a comparison element to compare said unique absorption spectra of said first and second markers with a look up table of predetermined spectra so as to assist in identification of said liquid.

26. (New) The apparatus of claim 25, wherein said detector is a spectroscopic detector.

27 [New] The apparatus of claim 26, wherein said spectroscopic detector is an absorption spectrometer.

28 [New] The apparatus of claim 27, wherein said absorption spectrometer is a near infrared spectrometer.

29 (New) The apparatus of claim 27, wherein said absorption spectrometer is a mid-infrared spectrometer.

30 (New) The apparatus of claim 27, wherein said absorption spectrometer operates in the visible spectrum.

31 [(New)] The apparatus of claim 26, wherein said spectroscopic detector is a fluorescence spectrometer.

-3-

SJF
A1
cont

32. (New) The apparatus of claim 31, wherein said fluorescence spectrometer is a near infrared spectrometer.

33. (New) The apparatus of claim 26, wherein said spectroscopic detector is a colorimeter.

34. (New) The apparatus of claim 26, wherein said spectroscopic detector is a Raman spectrometer.

35. (New) The apparatus of claim 25, wherein said detector is limited to those portions of the electromagnetic spectrum associated with select vibrational mode signatures characteristic of said first and second markers.

SJF
SC

36. (New) The apparatus of claim 25, further comprising at least a second detector, wherein said first detector is limited to that portion of the electromagnetic spectrum associated with a select vibrational mode signature characteristic of said first marker and wherein said second detector is limited to that portion of the electromagnetic spectrum associated with a select vibrational mode signature characteristic of said second marker.

37. (New) The apparatus of claim 36, wherein said first detector measures a nitrile vibration and said second detector measures an isotopically labeled carbon-nitrile vibration.

38. (New) The apparatus of claim 36, wherein said first detector measures infrared absorption band of a nitrile vibration at 2230 cm^{-1} and said second detector measures an isotopically labeled carbon-nitrile infrared absorption band at 2140^{-1} cm .

-4-

A1
Sub 1
Sub 2
Sub 3

39 [(New)] The apparatus of claim 36, wherein said first detector measures a nitrile vibration and said second detector measures an isocyanate vibration.

40 [(New)] The apparatus of claim 36, wherein said first detector measures infrared absorption band of a nitrile vibration at 2230 cm^{-1} and said second detector measures an isocyanate infrared absorption band at 2268^{-1} cm .

41 [(New)] The apparatus of claim 36, wherein said first detector measures absorbance at a wavelength of 520 nm and said second detector measures absorbance at a wavelength of 550 nm.

Sub 1
Sub 2
Sub 3

42 [(New)] The apparatus of claim 25, wherein said comparison element is a dedicated microprocessor.

Sub 1
Sub 2
Sub 3

43 [(New)] The apparatus of claim 25, wherein said comparison element further comprises a detector for determining the ratio of the concentration of said first marker to the concentration of said second marker.

Sub 1
Sub 2
Sub 3

44 [(New)] The apparatus of claim 36, wherein said comparison element is a dedicated microprocessor.